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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,576	12/28/2004	Shih Yi Wong	2085-03600	2531
23505 7 CONLEY ROSI	7590 04/13/200 E, P.C.		EXAMINER	
P. O. BOX 3267	7 .		MENON, KRISHNAN S	
HOUSTON, TX 77253-3267			ART UNIT	PAPER NUMBER
			1723	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)			
		10/519,576	WONG, SHIH YI			
		Examiner	Art Unit			
		Krishnan S. Menon	1723			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Opened for reply is specified above, the maximum statutory period of the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status			,			
1)⊠	Responsive to communication(s) filed on 28 D	<u>ecember 2004</u> .				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) 1-25 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
'-	5) Claim(s) is/are allowed.					
· ·	Claim(s) <u>1-11,13-23 and 25</u> is/are rejected.					
	Claim(s) 12 and 24 is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.	•			
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,—	•	danniner. Note the attached Office	Action of form F 10-132.			
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
	1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
Attachmen						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Paper No(s)/Mail Date						
3) 🔯 Infor	Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Pape	r No(s)/Mail Date	6)				

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DETAILED ACTION

Claims 1-25 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-9, 13-22 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Raichlen et al (US 4,698,969).

Raichlen teaches an apparatus and a method of producing pressure comprising a plunger having a weight (41, figure 2; all plungers have weight) enclosing a portion of a chamber, a positioning device (52) which supports the weight of the plunger (by floating on the water surface), the apparatus producing pressure to the water inside the chamber (9).

The apparatus has inlets and outlets with valves and conduits as claimed, it is vertically oriented, in parallel with the gravitational field, compression force is gravitationally applied (gravity is the counter force to the wave energy). Connecting to a

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desalination system – the desalination system is not considered as being recited as part of the apparatus, and such connection is an intended use of the apparatus (known in the art, see US 5,975,865 to Manabe for evidence), or pressure for the process claims.

2. Claims 1-10, 13-22 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Dilliner (US 3,126,830).

Dilliner teaches an apparatus and a process for producing pressure combining with weight of a plunger and gravitational forces, a chamber (28), a plunger (22), hoist (24+float 56), , inlet and outlet valves and lines – see figure 2 – and control actuators (in the form of the bearing supports (18, 44) and chains (62). The system is vertically oriented to use gravitational forces. Weight of the plunger gravitationally applies compression forces to pressurize water. Connection to a desalination system is intended use.

3. Claims 1-11, 13-23 and 25 are rejected under 35 U.S.C. 102(a/e) as being anticipated by Dick (US 6,392,314).

Dick also teaches a gravitational/wave powered system with plunger, chamber, vertical orientation, inlets and outlets with valves and lines for producing pressure and a process or producing pressure as claimed. Dick also teaches the intended application as for desalination, and also teaches use of pulleys – see figures 5a-c.

Allowable Subject Matter

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Claims 12 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The closest prior arts, includ9ing the ones cited by the PCT Examiner does not teach or fairly suggest use of an electric actuator and brake assembly for interacting with the pulley assembly to impede the reduction of the volume of the enclosure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Krishnan S Menon

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Primary Examiner

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